

Patent claims

1. A method for controlling data transmission in a wireless V.24 data transmission system operating between a data terminal
5 and a data transmission device for data telecommunication, wherein
the V.24 data transmission system has a first V.24 data transmission apparatus (DÜG1) and a second V.24 data transmission apparatus (DÜG2), which are interconnected via an
10 air interface (LSS) and wherein the first V.24 data transmission apparatus (DÜG1) is connected to the data terminal (DEE), the second V.24 data transmission apparatus (DÜG2) is connected to the data transmission device (DÜE) and the data transmission device (DÜE) is connected to a remote data
15 transmission device (DÜE_r) with a downstream remote data terminal (DEE_r),
with the following features:
- (a) on activation of the data terminal (DEE), the data transmission device (DÜE) and the V.24 data transmission
20 apparatus (DÜG1, DÜG2), the V.24 data transmission apparatus (DÜG1, DÜG2), the data terminal (DEE) and the data transmission device (DÜE) are operated in a command data transmission mode in which command data (KD) are transmitted between the data terminal (DEE) and the data
25 transmission device (DÜE),
- (b) a first transmission type referred to as a "software handshake" or a second transmission type referred to as a "hardware handshake" is set in that
- (b1) between the data terminal (DEE) and the data transmission
30 device (DÜE),
first command data (KD1) are transmitted, indicating that

09762625-043004
100E40" 52929760

GR 98 P 8075

- 12a -

a "software handshake" is to be performed between the data terminal (DEE) and the data transmission device (DUE), or second command data (KD2) are transmitted, indicating that a "hardware

09762625 043001

handshake" is to be performed between the data terminal (DEE) and the data transmission device (DÜE), or

(b2) the "software handshake" or the "hardware handshake" are preconfigured,

5 (c) at least one of the V.24 data transmission apparatus (DÜG1, DÜG2) detects - in case (b1) - the transmission type to be set and transfers this, if required, to the respective other V.24 data transmission apparatus (DÜG1, DÜG2),

10 (d) the first V.24 data transmission apparatus (DÜG1) switches to a first special mode (SM1) assigned to the "hardware handshake", in which the first V.24 data transmission apparatus (DÜG1), in relation to status lines (RTS, CTS), locally handles the "RTS", "CTS" states transmitted on
15 these lines between the data terminal (DEE) and the first V.24 data transmission apparatus (DÜG1), or to a second special mode (SM2) assigned to the "software handshake", in which the first V.24 data transmission apparatus (DÜG1), in relation to the data stream
20 transmitted between the data terminal (DEE) and the first V.24 data transmission apparatus (DÜG1), locally handles the "RTS", "CTS" states transmitted in this data stream,

(e) the second V.24 data transmission apparatus (DÜG2) switches to a third special mode (SM3) assigned to the
25 "hardware handshake", in which the second V.24 data transmission apparatus (DÜG2), in relation to the status lines (RTS, CTS), locally handles the "RTS", "CTS" states transmitted on these lines between the data transmission device (DÜE) and the second V.24 data transmission
30 apparatus (DÜG2), or to a fourth special mode (SM4) assigned to the "software

09762625-043001

GR 98 P 8075

- 13a -

handshake", in which the second V.24 data transmission apparatus (DÜG2), in relation to the data stream transmitted between the data transmission device (DÜE) and the second V.24 data transmission apparatus (DÜG2),

09762625.043001
T00E40"52929260

locally handles the "RTS", "CTS" states transmitted in this data stream.

2. The method as claimed in claim 1, characterized in that the "software handshake" is carried out by means of the
5 XON/XOFF protocol

3. The method as claimed in claim 1 or 2, characterized in that
the command data are Hayes-specific commands with the Hayes
prefix "AT (Attention)".

10 4. The method as claimed in one of claims 1 to 3, characterized in that
a modem is used as the data transmission device and a personal
computer is used as the data terminal.

5. The method as claimed in one of claims 1 to 4,
15 characterized in that
a DECT air interface is used as the air interface.

09762625.043001

add
at